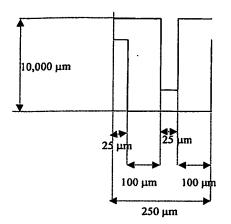


One embodiment of dilution/reaction chambers



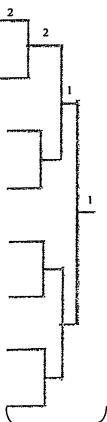
Unit Effective length = 20,050 μ m Unit Linear length = 250 μ m Unit Fluid volume = 0.2005 μ l (0.1 x 0.1 x 20.05)

of Units in 33 mm linear length = 132
Total chamber volume= 26.46 μl (0.2005 x 132)
Fluid Residence Time = 42 seconds @ output flow rate of 5 ul/sec for 8 networks operating in parallel

FIGURE 3

FIGURE 4

WO 2004/029221



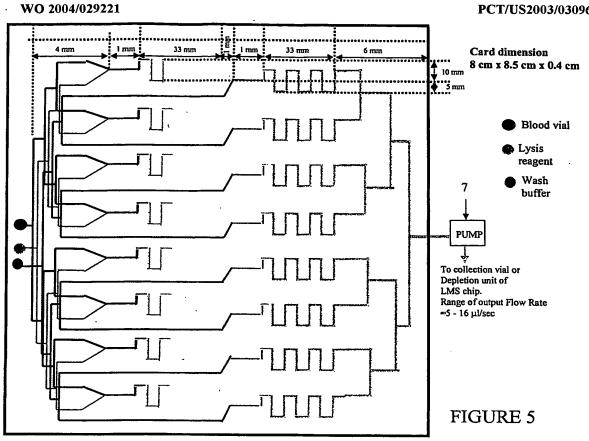
6 mm

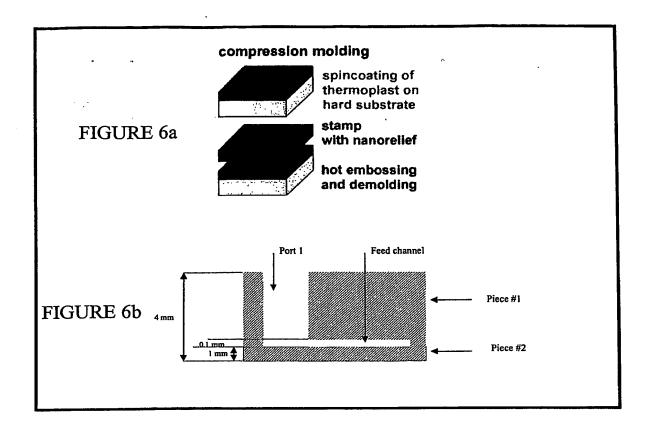
PUMP

7

Peristaltic pump or push-pull syringe pump operating in pull mode

Channel width= 100 microns, Channel depth= 100 microns





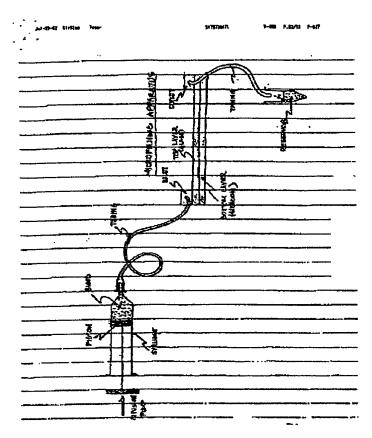


FIGURE 7

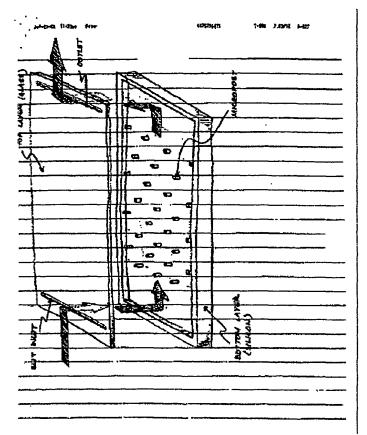


FIGURE 8

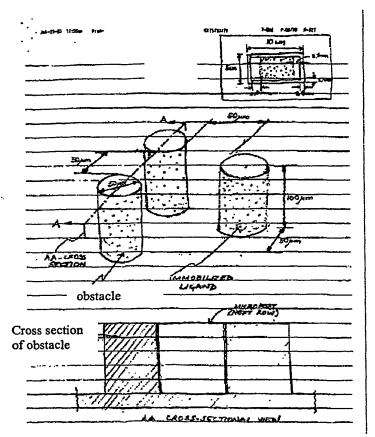


FIGURE 9

WO 2004/029221

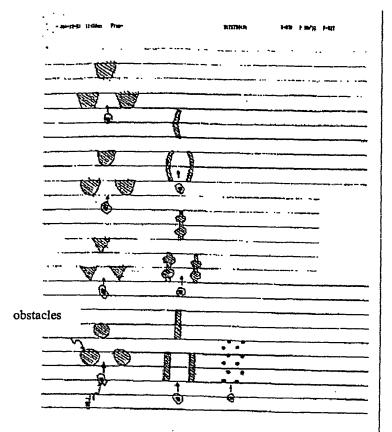
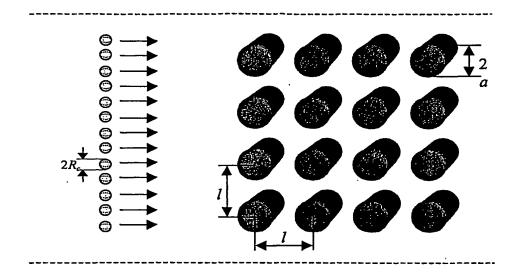
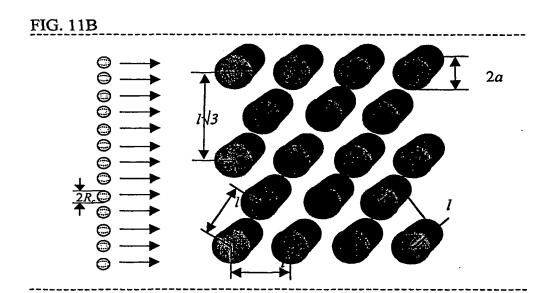


FIGURE 10





WO 2004/029221 FIG. 12A

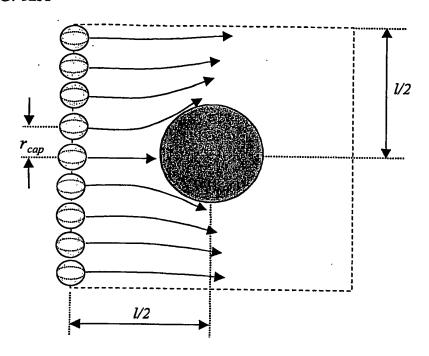
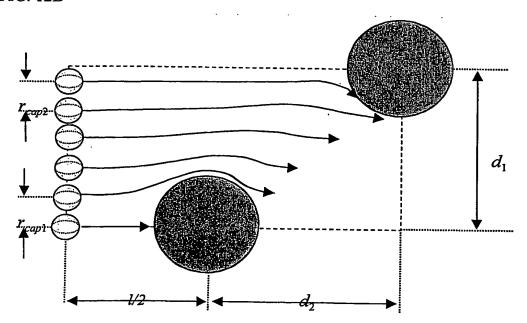
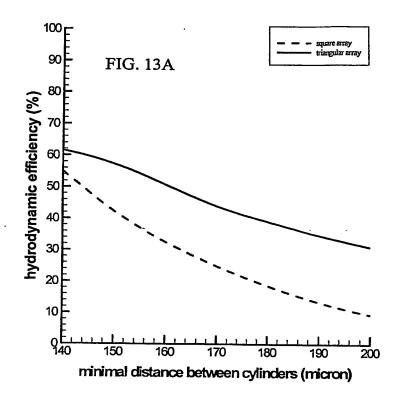
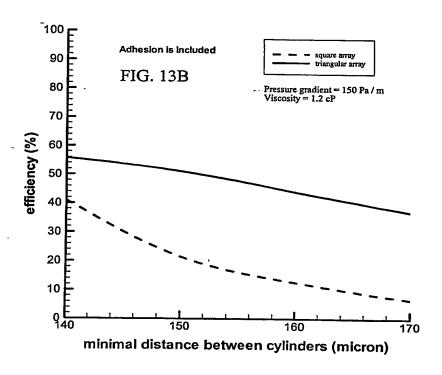


FIG. 12B







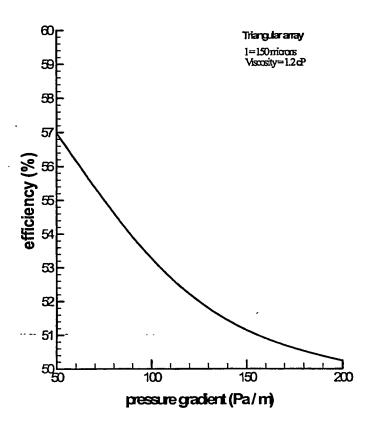


FIG. 14A

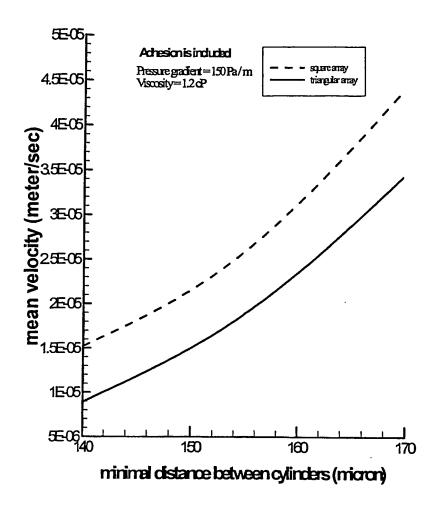


FIG. 14B

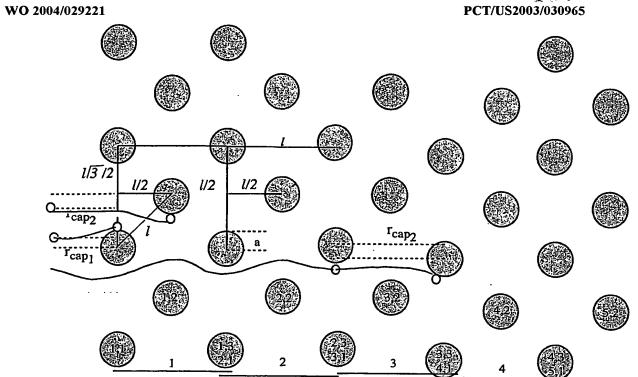
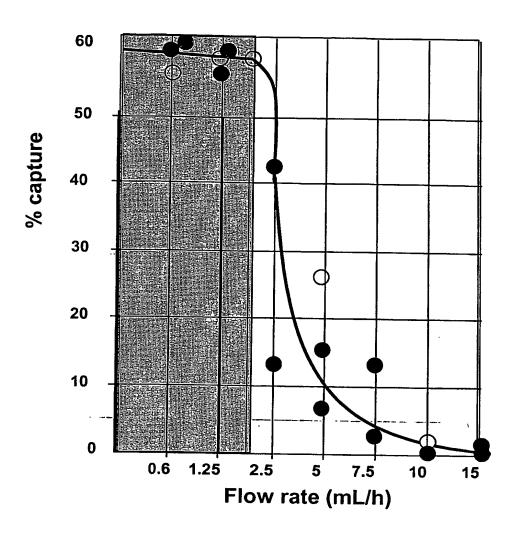
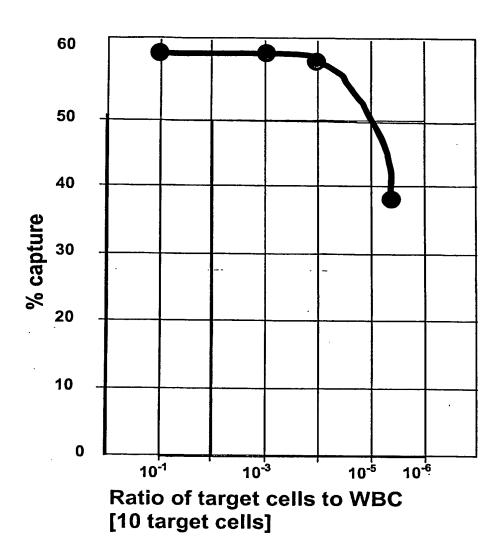


FIG. 15





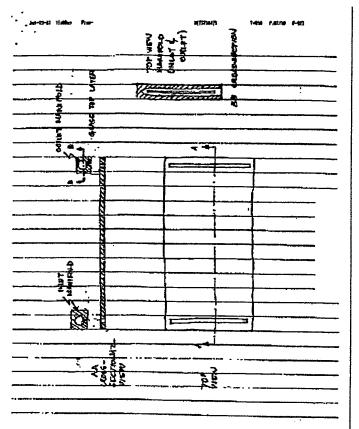


FIGURE 17

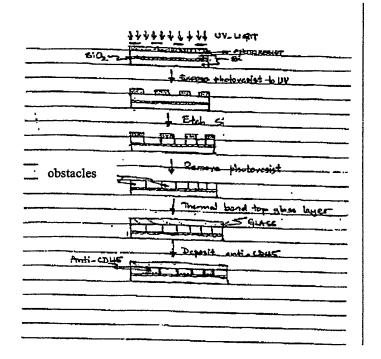


FIGURE 18

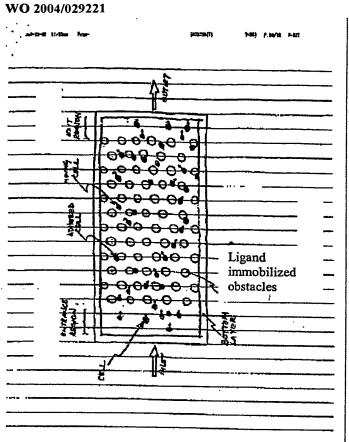


FIGURE 19

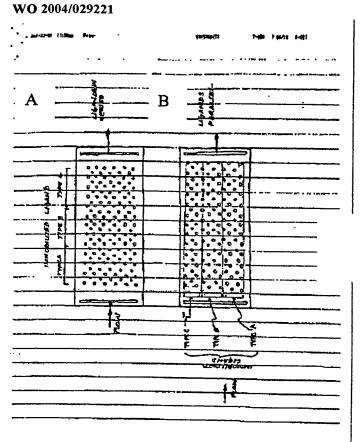


FIGURE 20



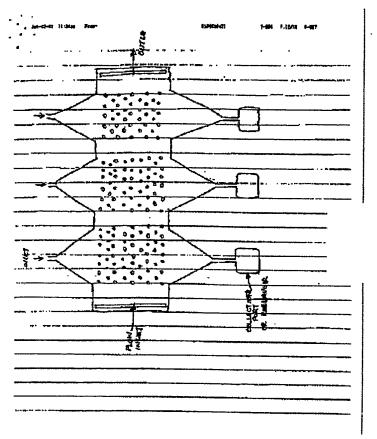
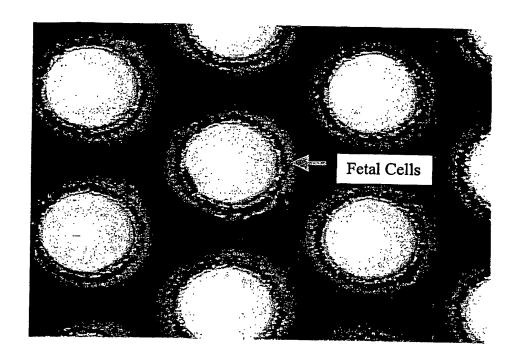
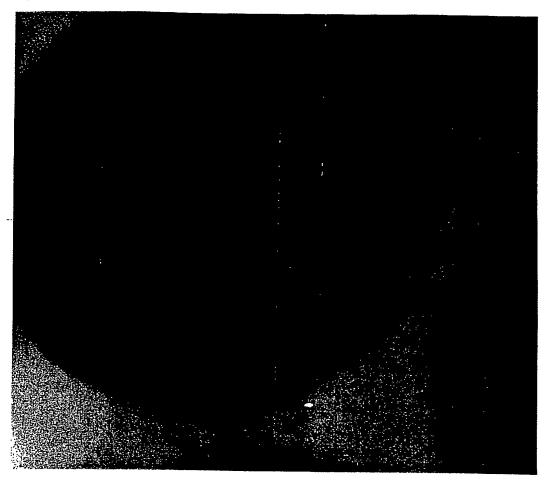


FIGURE 21

WO 2004/029221 FIG. 22A

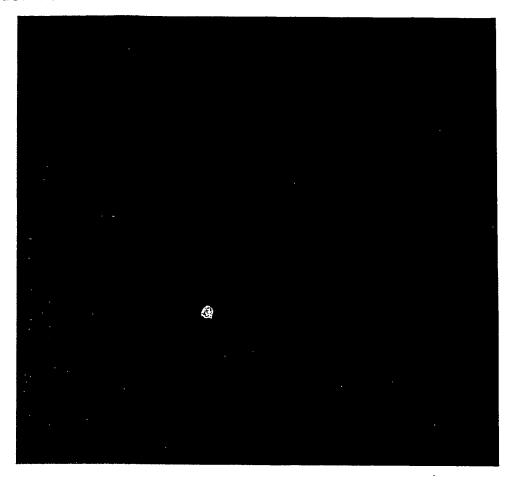


WO 2004/029221 FIG. 22B



WO 2004/029221

FIG. 22C



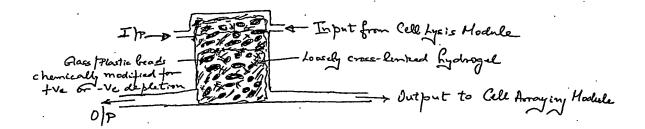


FIGURE 23

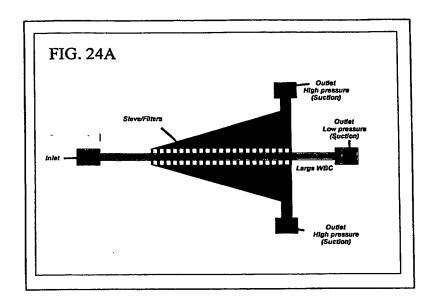
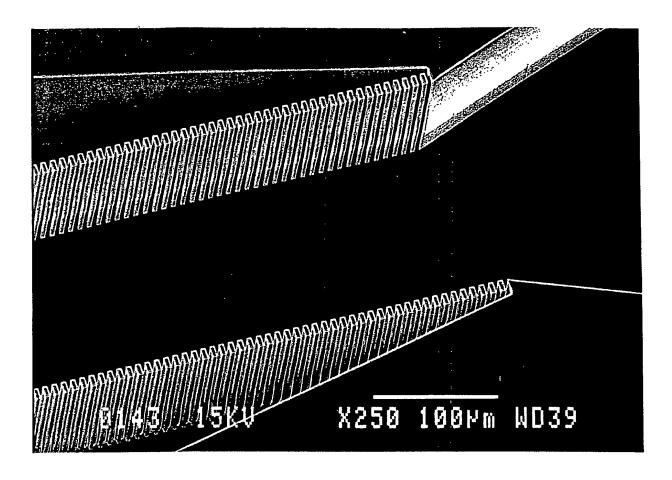
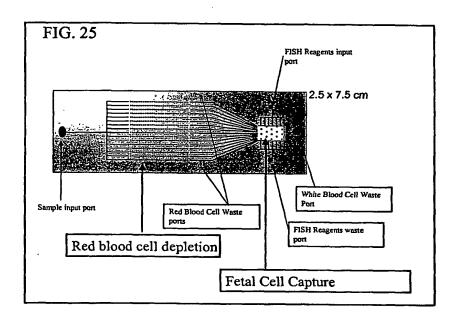


FIG. 24B





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